

TELEM-DI24-T digital input RTU module



The TELEM family RTU module TELEM-DI24-T with 24 digital inputs is used for acquisition digital signals or counter pulses. Module bases on 32-bit ARM CPU. Interfaces to other equipment are RS-232 or RS-422. Data exchange protocol IEC 60870-5-1-101. Time synchronization is possible with synchronization pulse through GW6 device and over protocol.

Features

- Time synchronization with 1 ms accuracy
- 2 level input filters Buffer depth for each time tagged input is 20
- Logical operations with inputs
- Leased line or dial-up mode operation, data GSM communication request by event in substation or by remote control center
- Configuration/parameter setting with IEC protocol at the same line with data communication
- Daisy-chain master-slave connection for up to 15 modules using RS- 422 interface
- Onboard knife disconnectors for digital inputs

Technical data

Number of digital inputs	24
Indication	1 for every input, 1 for running indication, 1 for alert indication
Built in clock with backup capacitor	Yes

Power requirements

Supply voltage	972 V DC, 1 W
Isolated input circuit voltage	20135V DC, max 9 W @48 VDC
Input circuit isolation voltage to supply	2,5 kV RMS

Installation, terminals and environment

Weight	495 g
Mounting	DIN 35
Dimensions (WxHxD)	250 x 125 x 60
Terminals for signal	MVSTBWA 2,5/4-ST
Terminal for power	MVSTBWA 2,5/4-ST
Terminal for communication	RJ4/4 (RS232); RJ12 (RS422)
Over voltage protection	IEC-60255-4, 5 kV pulse protection IEC-60255-5, 2 kV DC on
Disturbance	IEC-61000-3-2, 61000-6-2, 6100-6-4
Ambient temperature in operation	-30+70°C

Configuration

Configuration of TELEM-DI24-T is configured using **TELEM-GWS** software. All 24 digital inputs are configured independently. Communication port's configurable parameters and general settings

Martem AS Tel.: +372 639 7979 Fax: +372 639 7980 www.martem.eu TELEM-DI24-T



Communication speed	200115200 bps
Link Address	1255
ASDU address	1255
Object's base address	065500
Communication mode	Online
Time synchronization enabled	Yes
Buffer depth for each time tagged digital input	20

Configuration parameters for digital inputs

General

In use	Yes/No
Single- or double signal or counter input	Single/Double/Counter
Time tagged	Yes/No

Debouncing filter

Tolerant phase (A period of time during which changes of state are permitted and ignored on a digital input signal)	1255 ms
Intolerant phase (A period of time during which the state of a digital input must remain constant)	1255 ms

Chatter filter

A facility that is used to disable a digital input point if the number of state changes of that point

Chatter times (changes)	1255 times
Filter base period (time interval)	032000 ms
Lock-out period multiplier (number of filter base periods while the chatter filter will remain On)	1255 periods
during a defined time interval is excessively high	

Counter

Number of pulses for creating an event 12	255 pulses
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